

HyPrene 40

Naphthenic Process Oil Marketing Specification

This severely hydrotreated naphthenic process oil provides good solvency for the rubber and chemical processing industries. It has a low pour point, a low odor level, excellent color, and resistance to discoloration by heat or ultraviolet light.

TEST DESCRIPTION	TEST METHOD	SPECIFICATIONS		TYPICAL VALUES
		MIN	MAX	
Physical Properties				
Viscosity, SUS at 100°F (37.8°C)	ASTM D2161	31.0	46.0	36.0
Viscosity, SUS at 210°F (98.9°C)	ASTM D2161			30.0
Viscosity, cSt at 40°C (104°F)	ASTM D445	2.0	5.0	3.0
Viscosity, cSt at 100°C (212°F)	ASTM D445			1.2
API Gravity, 60°F (15.6°C)	ASTM D1250			32.7
Specific Gravity, 60°F (15.6°C)	ASTM D4052			0.8618
Density, lbs/gal at 60°F	ASTM D1250			7.178
Density at 15.6°C, g/cm ³	ASTM D1250			0.8612
Flash Point, COC, °F (°C)	ASTM D92	218 (103)		228 (109)
Flash Point, PMCC, °F (°C)	ASTM D93	200 (93)		208 (98)
Color, Saybolt	ASTM D6045	20		29
Pour Point, °F (°C)	ASTM D5950			-126 (-88)
Water Content	ASTM D7546M		PASS	PASS
Appearance	ASTM D4176M		PASS	PASS
Chemical Properties				
Acid Number, mg KOH/g	ASTM D664		0.05	0.01
Aniline Point, °F (°C)	ASTM D611	142 (61)	162 (72)	153 (67)
Sulfur, ppm	ASTM D7212			2
Refractive Index, 20°C (68°F)	ASTM D1218			1.4680
UV Absorptivity at 260 nm	ASTM D2008			0.14
Clay-Gel, wt%	ASTM D2007			
Asphaltenes				<0.1
Polar Compounds				0.2
Aromatics				17.7
Saturates				82.2
Carbon Type Analysis, %	IR Brandes			
Ca				7
Cn				46
Cp				47
Health and Safety Properties				
Polycyclic Aromatic Compounds, wt%	IP 346		3	<3
Modified Ames Assay, MI	ASTM E1687		1	<1